CONTROL-D® INFOPAC
Conversion Guide

Supporting

CONTROL-D® version 6.2.18

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Before you contact BMC Software, have the following information available so that Customer Support can begin working on your problem immediately:

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- operating system and environment information
  - machine type
  - operating system type, version, and service pack or other maintenance level such as PUT or PTF
  - system hardware configuration
  - serial numbers
  - related software (database, application, and communication) including type, version, and service pack or maintenance level
- sequence of events leading to the problem
- commands and options that you used
- messages received (and the time and date that you received them)
  - product error messages
  - messages from the operating system, such as `file system full`
  - messages from related software

Contents

Tables

About This Guide

This guide contains the information necessary to help you convert from INFOPAC to CONTROL-D. The guide contains the following parts:

Chapter 1 – Overview

Provides an introduction, outlines conversion steps, gives naming conventions, and gives a short explanation of each step of the conversion process.

Chapter 2 – Convert INFOPAC to CONTROL-D

Specifies the steps needed to perform the conversion.

Chapter 3 – Building a CONTROL-D Recipient Tree

Gives the procedure and examples for defining and building a CONTROL-D Recipient Tree using utility CTDBLDTR.

Appendix A – Default Conversion Parameters

Appendix B – Messages

Conventions Used in This Guide

Notational conventions that may be used in this guide are explained below.

Standard Keyboard Keys

Keys that appear on the standard keyboard are identified in boldface, for example, **Enter, Shift, Ctrl+S** (a key combination), or **Ctrl S** (a key sequence).

WARNING

The commands, instructions, procedures, and syntax illustrated in this guide presume that the keyboards at your site are mapped in accordance with the EBCDIC character set. Certain special characters are referred to in this documentation, and you must ensure that your keyboard enables you to generate accurate EBCDIC hex codes. This is particularly true on keyboards that have been adapted to show local or national symbols. You should verify that

$ is mapped to x'5B'
# is mapped to x'7B'
@ is mapped to x'7C'

If you have any questions about whether your keyboard is properly mapped, contact your system administrator.

Preconfigured PFKeys

Many commands are preconfigured to specific keys or key combinations. This is particularly true with regard to numbered PF keys, or pairs of numbered PFKeys. For example, the END command is preconfigured to, and indicated as, **PF03/PF15**. To execute the END command, press either the **PF03** key or the **PF15** key.

Instructions to enter commands may include

- only the name of the command, such as, enter the END command
- only the PF keys, such as, press **PF03/PF15**
- or both, such as, press **PF03/PF15,** or enter the END command

Command Lines and Option Fields

Most screens contain a command line, which is primarily used to identify a single field where commands, or options, or both, are to be entered. These fields are usually designated COMMAND, but they are occasionally identified as COMMAND / OPT or COMMAND / OPTION.

Option field headings appear in many screens. These headings sometimes appear in the screen examples as OPTION, or OPT, or O.

Names of Commands, Fields, Files, Functions, Jobs, Libraries, Members, Missions, Options, Parameters, Reports, Subparameters, and Users

The names of commands, fields, functions, jobs, libraries, members, missions, options, parameters, reports, subparameters, users, and most files, are shown in standard UPPERCASE font.

User Entries

In situations where you are instructed to enter characters using the keyboard, the specific characters to be entered are shown in this **UPPERCASE BOLD** text, for example, type **EXITNAME.**

Syntax statements

In syntax, the following additional conventions apply:

- A vertical bar (|) separating items indicates that you must choose one item. In the following example, you would choose *a*, *b*, or *c*:

  ```
  a | b| c
  ```

- An ellipsis (. . .) indicates that you can repeat the preceding item or items as many times as necessary.

- Square brackets ([ ]) around an item indicate that the item is optional. If square brackets ([ ]) are around a group of items, this indicates that the item is optional, and you may choose to implement any single item in the group. Square brackets can open ([ ) and close ( ]) on the same line of text, or may begin on one line of text and end, with the choices being stacked, one or more lines later.

- Braces ({ }) around a group of items indicates that the item is mandatory, and you must choose to implement a single item in the group. Braces can open ({) and close (}) on the same line of text, or may begin on one line of text and end, with the choices being stacked, one or more lines later.

Screen Characters

`All syntax, operating system terms, and literal examples are presented in this typeface.` This includes JCL calls, code examples, control statements, and system messages. Examples of this are:

- calls, such as

```
CALL 'CBLTDLI'
```

- code examples, such as

```
FOR TABLE owner.name USE option, . . . ;
```

- control statements, such as

```
//PRDSYSIN DD * USERLOAD PRD(2) PRINT
```

- system messages, both stand-alone, such as `You are not logged on to database database_name`, and those embedded in text, such as the message `You are not logged on to database database_name`, are displayed on the screen.

Variables

Variables are identified with *italic* text. Examples of this are:

- In syntax or message text, such as
  `Specify database` *database_name*
- In regular text, such as
  replace database *database_name1* with database *database_name2* for the current session
- In a version number, such as
  EXTENDED BUFFER MANAGER for IMS 4.1.*xx*

Special elements

This book includes special elements called *notes* and *warnings*:

NOTE

Notes provide additional information about the current subject.

WARNING

Warnings alert you to situations that can cause problems, such as loss of data, if you do not follow instructions carefully.

Related Publications

CONTROL-D Getting Started Guide

Introduction to CONTROL-D concepts and facilities in the framework of a hands-on demonstration.

CONTROL-D Online Viewing Guide

Tutorial guide that demonstrates the features of the Online Viewing facility.

CONTROL-D Implementation Guide

Practical guide for determining implementation objectives, and for planning and performing the implementation of CONTROL-D.

Implementing AFP in the CONTROL-D Environment

Guide to the efficient utilization of the built-in AFP support features of CONTROL-D.

INCONTROL for z/OS Administrator Guide

Information for system administrators about customizing and maintaining INCONTROL™ products.

INCONTROL for z/OS Installation Guide

Step-by-step guide to installing INCONTROL products using the INCONTROL™ Installation and Customization Engine (ICE) application.

INCONTROL for z/OS Messages Manual

Comprehensive listing and explanation of all INCONTROL and IOA messages and codes.

INCONTROL for z/OS Security Guide

Step-by-step guide to implementing security in INCONTROL products.

INCONTROL for z/OS Utilities Guide

Describes utilities designed to perform specific administrative tasks that are available to INCONTROL products.

Chapter 1

Overview

This chapter includes the following topics:

Introduction

This publication helps you convert from INFOPAC to CONTROL-D software.

The INFOPAC to CONTROL-D conversion tool creates CONTROL-D components based on information extracted from the INFOPAC database.

This conversion tool supports CONTROL-D version 6.1.00. IOA and CONTROL-D environments must be installed before starting the conversion process.

Conversion Steps

The steps for converting INFOPAC to CONTROL-D are described in Chapter 2, “Conversion Steps.”

Each of these steps can be implemented separately according to the needs of the report distribution environment. For example, INFOPAC archive indexes can be converted without performing other parts of the conversion.

Naming Conventions

INFOPAC to CONTROL-D conversion members are located in the IOA SAMPLE library. Nearly all the members associated with this conversion tool have names beginning with the characters INP.

- INPDEF*xx*—Members containing default settings and definitions
- INPJ*xxxx*—Members containing conversion jobs
- INPL*xxxx*—INFOPAC report layouts
- INPS*xxxx*—Source programs of the conversion jobs
- CTDBLDTR—Program for creating the CONTROL-D Recipient Tree

Creating an INFOPAC Dump File

Job INPJDUMP is a sample job that creates an INFOPAC dump file. This file is used as an input file for the conversion programs.

Creating Decollation Mission Definitions

Conversion program INPSDECM creates CONTROL-D decollation mission definitions from INFOPAC information. These decollation missions instruct CONTROL-D to decollate reports to the same recipients that received reports from INFOPAC. An INFOPAC DUMP file is used as input.

Printing characteristics are not processed by this conversion program because CONTROL-D automatically extracts all printing characteristics from the JES SPOOL. Therefore, the printing characteristics from the job's JCL are utilized.

Default values for conversion process parameters are located in member INPDEFDM in the IOA SAMPLE library and are described in Appendix A of this guide.

Job INPJDECM

Job INPJDECM produces decollation mission definitions that are stored as members in the CONTROL-D REPORTS library.

The decollation mission definitions can be converted by JOBNAME or external writer name. Adjust job INPJDECM according to the following guidelines:

- To convert the report definitions by JOBNAME, set the PARM parameter to JOB in the STEP05 and STEP07 statements. In this case, regular CONTROL-D decollation missions will be created. Each INFOPAC job will have a corresponding CONTROL-D decollation mission member.

- To convert by external writer name, do not set the PARM parameter to JOB in the STEP05 and STEP07 statements. In this case, generic CONTROL-D decollation missions will be created. Each INFOPAC report will have a corresponding CONTROL-D decollation mission member.

This job creates a file that is used by jobs CTDJTREE and CTDJARCH to create the Recipient Tree and the History User Reports file.

Creating the CONTROL-D Recipient Tree

Job INPJTREE creates the Recipient Tree, using the file created by job INPJDECM.

Program CTDBLDTR in the IOA SAMPLE library is used for conversion of the Recipient Tree. Information about this program is in member CTDBLDDC in the IOA SAMPLE library, and in Chapter 3 of this guide.

Converting the Archive Index

This part of the conversion process creates the CONTROL-D History User Reports file to facilitate access to reports archived by INFOPAC. This file enables reports created by INFOPAC to be restored in the CONTROL-D environment from the original tapes backed up by INFOPAC.

Job INPJARCH

Job INPJARCH creates records in the CONTROL-D History User Reports file, based on input from job INPJDECM.

User Exit CTDX004

Adjust User Exit CTDX004 if archived reports are being converted. Exit CTDX004 receives control during the Restore request and starts a process for restoring reports from INFOPAC tapes. As of version 6.0.00, a sample of User Exit CTDX004 is supplied in member CTDX004L of the IOA SAMPEXIT library. In versions 5.*x*.*x*, the exit is located in the IOA SECUDATA library.

Exit CTDX004 submits a job to locate the corresponding report on the tape, writes this report directly to a CDAM file, and creates new user and sysdata records in the Active User Reports file.

The programs invoked by this job are located in the IOA LOAD library.

INPSKL Skeleton Job

INPSKL is a skeleton for building a job to restore reports from INFOPAC tapes. This skeleton is located in the CONTROL-D SKL library.

Conversion Steps

This chapter includes the following topics:

Overview

The conversion process consists of the following steps, which can be implemented separately according to the needs of the report distribution environment.

1 Tailor and Run Member INPJASML.

2 Create the INFOPAC dump file that is used as input for the conversion programs.

3 Create CONTROL-D decollation mission definitions from INFOPAC information, as follows:

   A Check and Modify Options Specified in Member INPDEFDM

   B Check and Modify the Table of Migration Mission Names

   C Tailor and Run Job INPJDECM

4 Create the CONTROL-D Recipient Tree, using INFOPAC recipient reports. The CONTROL-D Recipient Tree is a very important element of CONTROL-D that is used by almost all CONTROL-D processes. Therefore, the Recipient Tree should include all CONTROL-D recipients before you begin testing CONTROL-D functions.

5 Create the CONTROL-D History User file from INFOPAC information, to enable access to reports archived by INFOPAC.

   A Tailor and Run Job INPJARCH

   B Tailor and Recompile User Exit CTDX004

   C Tailor Skeleton INPSKL in the CONTROL-D SKL Library

6 Test the Conversion

Step 1. Tailor and Run Member INPJASML

1. Use member ASMLINK to assemble and link-edit the conversion programs.

   Tailor the JCL of this member according to your naming conventions.

2. Submit the job for execution and check the sysout for error messages. Condition code 0 indicates proper completion of the job.

Step 2. Create the INFOPAC Dump File

1. Use sample job INPJDUMP in the IOA SAMPLE library to create the INFOPAC dump file.

   The following table describes the input and output for this step:

Table 1 Job INPJDUMP Input and Output

Data	Description
Input	Input the INFOPAC database in this step.
Output	Output is a sequential file containing the dump. Name the output file CTD.INPC.REPORT. Otherwise, you must change the name in the job that extracts the data. Make sure the output file has the following characteristics: physical sequential, record format FBA, logical record length 133.

2. Submit the job for execution and check the sysout for error messages. Condition code 0 indicates proper completion of the job.

Step 3. Convert Report Definitions

Step 3.A. Check and Modify Options Specified in Member INPDEFDM

Tailor the CONTROL-D options specified in member INPDEFDM in the IOA SAMPLE library. Adjust the options according to your needs. The default values of the options are listed in Appendix A of this guide.

Step 3.B Check and Modify the Table of Migration Mission Names

1. Check and modify the migration mission table in the sequential file as needed.

2. Ensure that this file has the following characteristics: physical sequential, record format FB, logical record length 80.

The name of the INFOPAC migration class begins in column 1. The name of the corresponding migration mission begins in column 15.

Step 3.C Tailor and Run Job INPJDECM

Use job INPJDECM to build the CONTROL-D decollation mission definitions.

The following table describes the input and output for this step:

Table 2 Job INPJDECM Input and Output

Data	Description
Input	Input to this step includes the following entities: ■ CTD.INPC.REPORT file, extracted from the INFOPAC database. ■ CTD.INPC.MIGCLASS file, including the table of migration mission names. ■ Member INPDEFDM in the IOA SAMPLE library. This member contains external parameters for the conversion. These parameters are used as defaults for the report decollation definitions. Make any necessary changes before you run job INPJDECM.
Output	This step outputs a PDS library containing CONTROL-D report decollation mission definitions. The default file name is CTD.REPORTS. The characteristics of this file are: partitioned dataset, logical record length 80, blocksize 3120.

1. Tailor member INPJDECM in the IOA SAMPLE library.

2. Submit the jobs for execution and check the sysout for error messages. Condition code 0 indicates proper completion of the job.

NOTE

Make sure the SPACE parameter specified for file DAREPMIS contains enough directory blocks, and that the primary allocation value is large enough.

Step 4. Create the CONTROL-D Recipient Tree

1. Use job INPJTREE from the IOA SAMPLE library to create the CONTROL-D Recipient Tree.

2. Submit the job for execution and check the sysout for error messages. Condition code 0 indicates proper completion of the job.

For more information about building a CONTROL-D Recipient Tree, see Chapter 3, "Building a CONTROL-D Recipient Tree.".

Step 5. Archive the Conversion

Step 5.A Tailor and Run Job INPJARCH

Job INPJARCH adds records to an existing History User file. If this job is rerun, reformat the History User file to prevent the addition of duplicate records. Use job CTDUFDBF from the CONTROL-D JCL library to reformat the History User file.

1. Submit the job for execution and check the sysout for error messages. Condition code 0 indicates proper completion of the job.

2. Run the CTDUFSR utility to resort the data portion of the History User file. A sample job can be found in member CTDUFSR in the CTD JCL library.

Step 5.B Tailor and Recompile User Exit CTDX004

Adjust User Exit CTDX004 using Sample Exit CTDX004L supplied in the IOA SAMPEXIT library.

Step 5.C Tailor Skeleton INPSKL in the CONTROL-D SKL Library

Tailor skeleton INPSKL in the CONTROL-D SKL library.

Step 6. Test the Conversion

Test the conversion.

Chapter 3

Building a CONTROL-D Recipient Tree

This chapter includes the following topics:

Overview

Use utility CTDBLDTR to create or modify the CONTROL-D Recipient Tree. This utility uses input from two sources: a report (referenced by DD statement REPORT), and a set of instructions (referenced by DD statement SYSIN) specifying how the data in the report is used to create users in the Recipient Tree.

This utility produces a list (referenced by DD statement SYSPRINT) summarizing the structure (input supplied by the user in SYSIN), and the Recipient Tree (referenced by DD statement TREE). TREE is a member of a partitioned dataset. If TREE is an empty member, the utility creates the Recipient Tree. If TREE contains an existing Recipient Tree, the utility modifies it.

The utility scans each line of the REPORT input and processes it according to the specifications included in the SYSIN data.

For sample JCL programs to execute utility CTDBLDTR, see members CTDBLDDC and CTDBLDJB in the IOA SAMPLE library.

Defining the Levels

The instruction syntax for building the Recipient Tree is as follows:

```
LEVEL=xx
USER -
POS=n
LENGTH=n
{    DEFAULT=ccc }
{       POS=n
LENGTH=n
{    DEFAULT=ccc } }
.
.
.
{       POS=n
LENGTH=n
{    DEFAULT=ccc } }
{ PARENT -
PLEVEL=xx
POS=n
LENGTH=n
{    DEFAULT=ccc }
{    TRANSLATE=tabledd } }
{ ADDRESS -
POS=n
LENGTH=n
{    DEFAULT=ccc } }
{ SYNONYM -
POS=n
LENGTH=n
{    DEFAULT=ccc } }
{ SYNONYM -
POS=n
LENGTH=n
{    DEFAULT=ccc } }
END
```

Each LEVEL command can contain four types of paragraphs:

Table 3 LEVEL Command Paragraphs

Paragraph	Description
USER	Instructions to construct the user name. Mandatory.
PARENT	Instructions to construct the parent name. Optional.
ADDRESS	Instructions to construct the address text. Optional.
SYNONYM	Instructions to construct synonyms. Optional. Can be used more than once to construct more than one synonym for each user.

Parameters define how to process the paragraph. These parameters are repeated for the same paragraph if the data to be constructed consists of data contained in more than one string in the report line.

The use of these parameters is as follows:

Table 4 LEVEL Command Parameters

Parameter	Description
POS	Starting character position of the string in the input report. A value of 0 (zero) indicates that the default value is used. Data from the report is not used for this parameter. The POS value is relative to the first print column of the report (that is, for the first column of the report, POS is set to 1) and does not include print control characters or variable record length values.
LEN	Length of the data extracted from the input report, starting from the character position specified in POS or from the default value if POS is set to 0.
DEFAULT	The default value. Optional. Any position in the field of length LEN from the report that is blank is replaced by the corresponding character from parameter DEFAULT.

The combined total length of the data constructed from all the repetitions of the parameters, for each paragraph, must not exceed the number of characters shown in the table below:

Table 5 Maximum Number of Characters for Paragraph Types

# Characters	Paragraph Type
8	USER
8	PARENT
52	ADDRESS
20	SYNONYM

The utility constructs the users based on these definitions and searches the Recipient Tree to see if the constructed user is already defined. If the user is not found, the utility adds the user. If the user is found, the utility updates the Recipient Tree. This utility is especially useful if the only changes required are the addition of synonyms.

Additional Considerations for the PARENT Paragraph

The PARENT paragraph has two additional parameters:

Table 6 PARENT Paragraph Parameters

Parameter	Description
PLEVEL	Mandatory. Level at which the parent is located.
TRANSLATE	Optional. DD name referencing a file containing the USER/PARENT correspondence.

If the parent of a user cannot be identified from the data on the report line, but can be determined from the user name, a file containing a table relating parent names to user names is supplied.

Each line in the external table is in the format USER=*usermask* PARENT=*parent*

In the *usermask* field, masking characters have the following meaning:

- *—Matches any number of consecutive characters.
- ?—Matches any one character.

Examples

- USER=ABC*D matches users ABC*123*D, ABC*12*D, and ABC*X*D.
- USER=ABC?D only matches user ABC*X*D from the above set.

TREE Construction Example

Suppose that the SYSIN file contains the following statements:

```
LEVEL=20
USER -
POS=0
LENGTH=1
DEFAULT=L
POS=10
LENGTH=2
DEFAULT=03
PARENT -
PLEVEL=10
POS=0
LENGTH=6
DEFAULT=CDTREE
LEVEL=30
PARENT -
PLEVEL=20
POS=0
DEFAULT=L
LENGTH=1
POS=10
LENGTH=2
TRANSLATE=TABLE1
USER -
POS=0
LENGTH=1
DEFAULT=L
POS=1
LENGTH=4
DEFAULT=CKJ
SYNONYM -
POS=0
LENGTH=4
DEFAULT=USER
POS=1
LENGTH=4
SYNONYM -
POS=0
LENGTH=5
DEFAULT=SYN1-
POS=1
LENGTH=4
```

The Recipient Tree is constructed as follows:

For each line in REPORT file:

1. For a user at level 20 with the name L*xy*, where *xy* are the contents of columns 10 and 11 in the report line:

   - If column 10 is blank, the name is 'L0*y*'
   - If column 11 is blank, the name is 'L*x*3'
   - If both are blank, the name is 'L03'

2. The parent of this user is at level 10 with the name CDTREE.

3. For a user at level 30 with the name L*abcd*, where *abcd* are the contents of columns 4 through 7 in the report line:

   Default CKJ is used in a manner similar to default 03 in item 1 above.

4. An attempt is made to determine a level 20 parent from the value 'L' plus the contents of columns 10 and 11. If this does not succeed, then the file referenced by DDNAME TABLE1 is scanned line by line until a match is found for the user name and the parent name are taken from the file.

   Two synonyms are created: 'USER*abcd*' and 'SYN1-*abcd*', where abcd represents the contents of columns 1 through 4 in the report line.

Default Conversion Parameters

Default definition parameters for decollation missions are contained in member INPDEFDM in the IOA SAMPLE library. These parameters can be tailored according to the needs of your site.

Table 7 Default Conversion Parameters (Part 1 of 2)

Parameter	Description
ON CLASS	Mandatory. Describes the classes on which this report can be located. Maximum length: 8 characters. Specify at least one class.
DEFAULT USER	Optional. Specifies a valid user name, defined in the CONTROL-D Recipient Tree, that gets the unidentified pages of a report. Maximum length: 8 characters.
DEFAULT COPIES	Optional. Defines the default number of copies to produce when printing the report. If not specified, the value 098 is taken from the DEFAULTS definitions. For more information, see the *CONTROL-D User Guide*. Length: 3 characters. Leading zeroes must be used.
MAX COPIES	Optional. Defines the maximum number of copies. If not specified, the value of 098 is taken from the DEFAULTS definitions. For more information, see the *CONTROL-D User Guide*. Parameter length: 3 characters. Leading zeroes must be used.
CATEGORY	Mandatory. Defines a report decollation mission category name. By default, the category name is set to a JOBNAME. If not, the category name is taken from this parameter. Maximum length: 20 characters.
OWNER	Mandatory. Defines the default USER ID to which reports are assigned. Maximum length: 8 characters.
PRINT BY FORM	Optional. Indicates whether the printing mission name is set to ■ the FORM name taken from the INFOPAC report, ■ or the default printing mission name (set to STD). Valid values: Y (Yes) for the FORM name or N (No) for STD.
BACKUP MISSION	Optional. Specifies the BACKUP MISSION name. Maximum length: 8 characters.
MIGRATION MISSION	Optional. Specifies the MIGRATION MISSION name. Maximum length: 8 characters.

Table 7 Default Conversion Parameters (Part 2 of 2)

Parameter	Description
#LINES RANGE	Optional. Defines the “window” in which to search for a string within the page. For example, if “from line” is set to 001 and #LINES RANGE is set to 003 in the INFOPAC report, then the string in CONTROL-D is searched from lines 001 through 003. The value 000 means: search only in the designated line. Parameter length: 3 characters. Use leading zeroes. Default: 000
RETRO	Optional. Retroactive scheduling. Specifies whether to schedule a report decollation mission if its original schedule date has passed. Default: "*", means do not schedule the mission.
MAXWAIT	Optional. Number of days to wait for report decollation completion. Specifies the number of “extra” days a decollation mission waits for execution in the Active Missions file. After the mission has waited the extra days, it is deleted. Default: 0 (days)
GENERIC	Sets the type of decollation mission. Valid values are: ■ N – regular (non-generic) ■ Y – generic
VERSION	Do not modify VERSION.
MONTHS	For future use. Do not modify MONTHS.
COPIES	Optional. Sets the default number of copies if this parameter is not specified in member INPARM. Default: 98
DEFPRT	Default print mission name used in the DO PRINT statement in the decollation definition.
LINES	Optional. Default number of lines used as a “window” for a string search. Default: 000 (no window)

Default archive conversion parameters are contained in member INPDEFAR in the IOA SAMPLE library. Tailor these parameters according to requirements of the site.

Table 8 Member INPDEFAR Default Archive Conversion Parameters

Parameter	Description
PRODUCT	Default INFOPAC. Do not modify.
CATEGORY	Default INFOPAC-CONVERTED. Do not modify.
CLASS	Optional.
COPY#	Optional.
FORM	Optional.
CHARS	Optional.
MODIFY	Optional.
DEFRETP	Default retention period. Default: 0110 (days)

Messages

CTDINP01S **BAD RC=*rc* FROM PUTMEM FUNCTION. MEMBER – *memname***

Explanation: An error occurred while processing routine CADSMEM. The error probably occurred as a result of insufficient space in the CONTROL-D REPORTS library. Routine CADSMEM is used to perform all the required operations on PDS libraries and members.

System Action: The job terminates.

User Response: Determine which library member was being processed and take appropriate corrective action.

CTDINP02E **INVALID INPUT PARM *param***

Explanation: The external input parameters list contains an invalid parameter. Valid options for input parameters are listed in the conversion routine.

User Response: Determine which parameter is not valid and correct it.

CTDINP03E **MISSING VALUE FOR PARM *param***

Explanation: The parameter listed in this message is mandatory.

User Response: See the description of the missing or invalid input parameter elsewhere in this guide. Specify a valid value for the required parameter.

CTDINP04E **MISSING OBLIGATORY PARAMETER**

Explanation: Member INPDEFDM in the IOA SAMPLE library contains several mandatory parameters. At least one of them is missing.

User Response: See the description of the missing parameters elsewhere in this guide. Specify a valid value for the parameters.

CTDINP05E **NO MORE SPACE FOR REPORT: *rpt*. PROCESSING NEXT REPORT**

Explanation: Report definition member *rpt* contains more lines than specified in conversion routine INPSDECM, constants #CARDS, and AREALEN.

System Action: The member is processed only to the specified line limit. The remaining lines are skipped. Processing continues with the next report.

User Response: Increase the value of the parameter, rerun job ASMLINK, and rerun INPJDECM.

CTDINP06E GETMAIN FOR AREA FAILED

Explanation: A memory acquisition MVS function failed. The value specified for JCL parameter REGION is not large enough.

User Response: Increase the value of parameter REGION and rerun the failing job.

CTDINP07E FREEMAIN OF AREA FAILED

Explanation: Allocated memory cannot be freed.

System Action: The conversion routine terminates with a non-zero return code.

CTDINP08E DD CARD *ddname* COULD NOT BE OPENED

Explanation: A required DD statement is probably missing from the JCL of job INPSDECM.

User Response: Supply the missing DD statement and rerun the job.

CTDINP09S ERROR PROCESSING DIRECTORY

Explanation: This WTO message is generated by routine CADSMEM, which handles PDS operations.
The CONTROL-D REPORTS library reached its directory limit.

User Response: Reallocate the REPORTS file with a larger number of directory blocks and resubmit job CADIDMIS.

CTDINP10S DEFAULT COPIES NUMBER IS GREATER THEN THE MAX COPIES NUMBER. 98 IS ASSUMED

Explanation: The default value of parameter DEFAULT COPIES in member INPDEFDM in the IOA SAMPLE library is greater than the value specified for parameter MAX COPIES**.**

User Response: Specify compatible values for parameters DEFAULT COPIES and MAX COPIES.

CTDCA0I HISTORY FILE CONVERSION STARTED

Explanation: This information message indicates that the archive conversion process has started.

CTDCA1I **HISTORY FILE CONVERSION ENDED RC=*rc***

Explanation: This information message indicates that the archive conversion process has ended with a return code of *rc*.

CTDCA2I **DEFPARS / DCBOUT OPEN ERROR**

Explanation: This information message indicates that an attempt to open a file with ddname DEFPARS or DCBOUT failed.

System Action: The job terminates.

User Response: Correct the job and rerun it.

CTDCA3I **CAN NOT LOAD CTMPARM / CTDPARM**

Explanation: This information message indicates that module CTMPARM or CTDPARM cannot be loaded.

System Action: The job terminates.

User Response: Correct the job and rerun it.

CTDCA4I **HSTREP OPEN ERROR**

Explanation: This information message indicates that the file referenced by DD statement HSTREP cannot be opened.

System Action: The job terminates.

User Response: Correct the job and rerun it.

CTDCA5I **RC=rc DURING operation-type OPERATION**

Explanation: This information message indicates that an error occurred during access to the CONTROL-D History User file.

System Action: The job continues processing.

User Response: Analyze the return code from this message and rerun the job in case of a severe error.

CTDCA6I **CONVERTED:**

Explanation: This information message provides a header for statistics messages about converted records.

System Action: The job continues processing.

CTDCA7I ***record-type* RECORDS: *num-records***

Explanation: This information message provides statistics about converted records.

CTDCA8S **NUMBER OF CONVERSION ERRORS EXCEEDS THE MAXIMUM ALLOWEDThis message is issued if the number of errors is more than 20.**

System Action: The job terminates.

User Response: Analyze the reasons for the errors and rerun the job.

CTDCA9I **INCORRECT DEFAULT PARAMETER: *parm***

Explanation: This information message indicates that a parameter specified in member INPDEFAR is invalid.

System Action: The job terminates.

User Response: Analyze the reason for the error and rerun the job.

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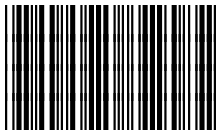
Notes



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